Test at the **speed** of light

Multi-rate transmission testing to 10 Gb/s

Agilent Technologies

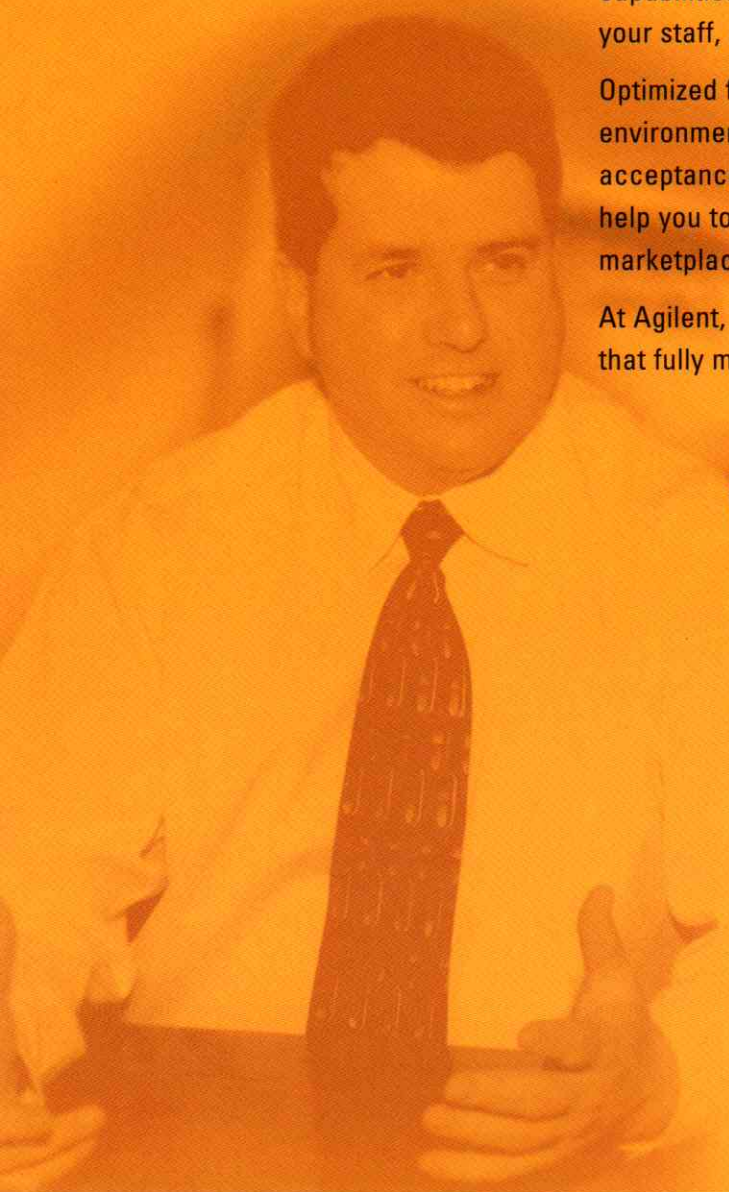
New productivity tools for the evolving transmission network

Economics and the demand for network bandwidth has led to a new class of network element - one that combines a range of functions including switching, grooming and multiplexing. Clearly, these 'new-generation' transmission systems need a new test methodology if operational costs are to be minimized.

That's why Agilent has developed a new family of portable testers, to take transmission testing into this new era and help your organization keep pace with business dynamics and network evolution. These test sets will significantly reduce the time required to test your network, leading to faster service turn-up, and better response to your customers' needs. What's more, their advanced capabilities and intuitive operation means less time is spent training your staff, and more time generating revenue.

Optimized for use in an increasingly competitive business environment, our test sets provide the ideal solution for installation, acceptance, commissioning and maintenance. In short, they will help you to deliver the fast, stable networks that the modern marketplace demands.

At Agilent, we are committed to providing focused portable test tools that fully meet your evolving needs.



Bill Mortimer

Bill Mortimer
VP and General Manager
Communication Service Solutions

Agilent Technologies

cut the time and cost of testing

without compromising results integrity

Focused on field applications, Agilent's new generation of portable multi-rate transmission test sets cover all applications from 10 Gb/s to 64 kb/s. Moreover, these test sets offer the very latest all-channel testing technology.

Now you can simultaneously monitor all STS/AU channels (up to 192) in a received SONET or SDH line signal, continuously, for fast problem resolution and efficient commissioning. This level of testing is critical to verifying the full range of traffic processing facilities provided by new-generation transmission systems as they are deployed. For both routine and complex field applications, a broad set of additional measurement tools are available to identify problems associated with errors and alarms, signal quality and network operational performance.

Two multi-rate product platforms offer tailored solutions for all line rates up to 2.5 Gb/s, and all line rates up to 10 Gb/s. Both platforms support SONET, SDH, T-carrier and PDH test applications.

What's more, these new testers are rugged and compact for optimum convenience and portability. And because they're so easy to operate, technicians at all skill levels can use them with absolute confidence. This means you can always be sure of reliable results quickly, no matter how complex the measurement task.

Two product platforms for:
- multi-rate testing to 2.5 Gb/s (J2126A)
- multi-rate testing to 10 Gb/s (J2127A)

all-channel testing

at the touch of a button

Agilent's unique SmartTest facility combines with an intuitive menu-driven graphical user interface (GUI) to get you testing productively in seconds.

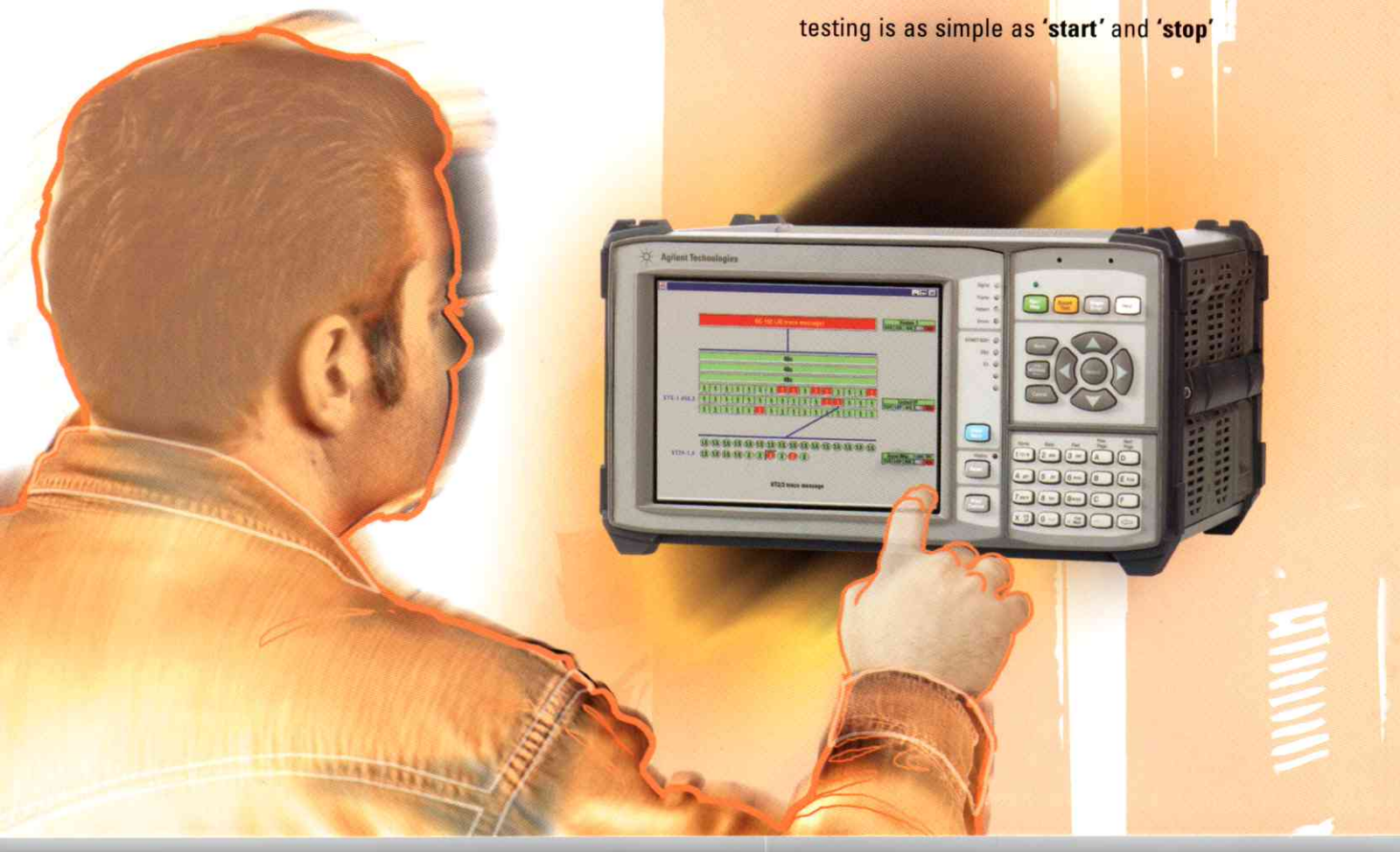
Simply press the 'SMART TEST' button and a menu of key instrument functions is right there at your fingertips. Hit the SignalWizard function and let the instrument take full control of the network monitoring process automatically.

The test set:

- Discovers the line rate and channel structures of any valid signal (including mixed STS/AU channel sizes)
- Simultaneously monitors for errors, alarms and pointer activity within all detected channels
- Shows the type of traffic carried in each channel
- Provides listing and searching tools for path trace messages allowing simple testing of channel routing

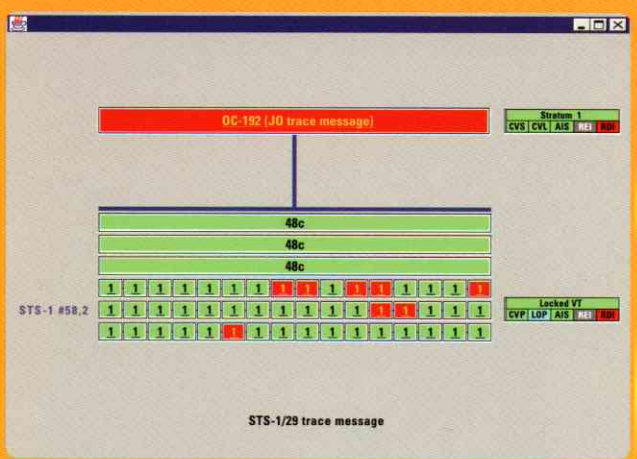
SignalWizard gets you up and running **within 3 seconds**

testing is as simple as **'start'** and **'stop'**

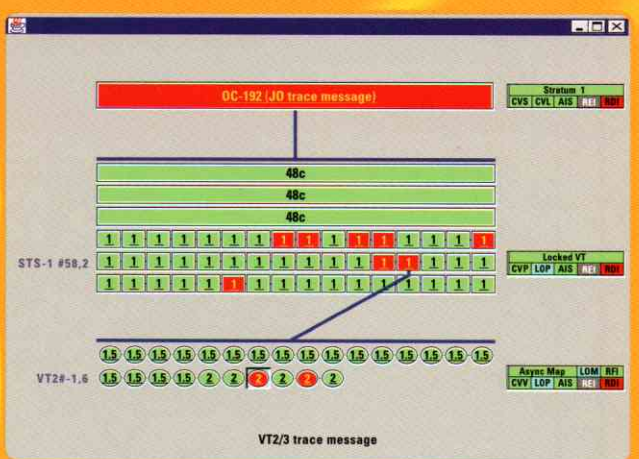


essential capability for efficient testing of the new-generation SONET/SDH transmission platforms

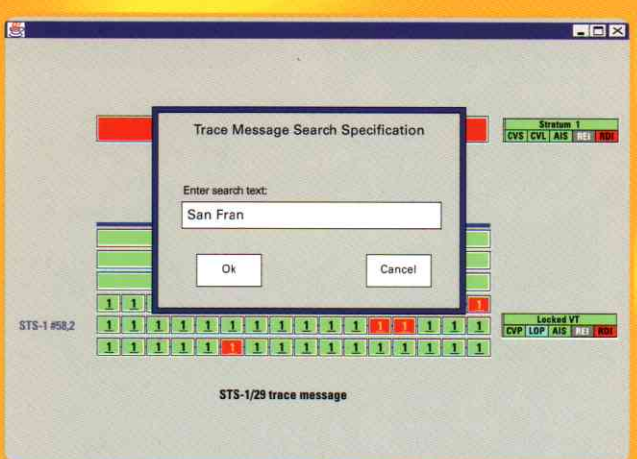
SignalWizard reduces installation, commissioning and network operational costs through improved technician productivity, helping you deliver improved quality-of-service to your customer.



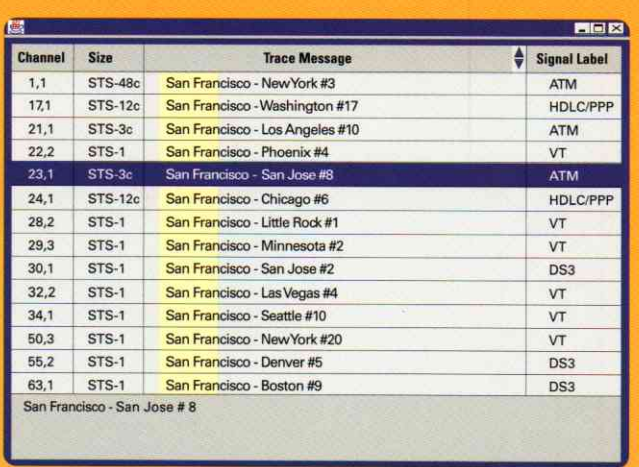
Error and alarm status clearly presented for each detected STS/AU channel.



Error and alarm status continuously monitored for all detected VT/TU channels within a selected STS/AU.



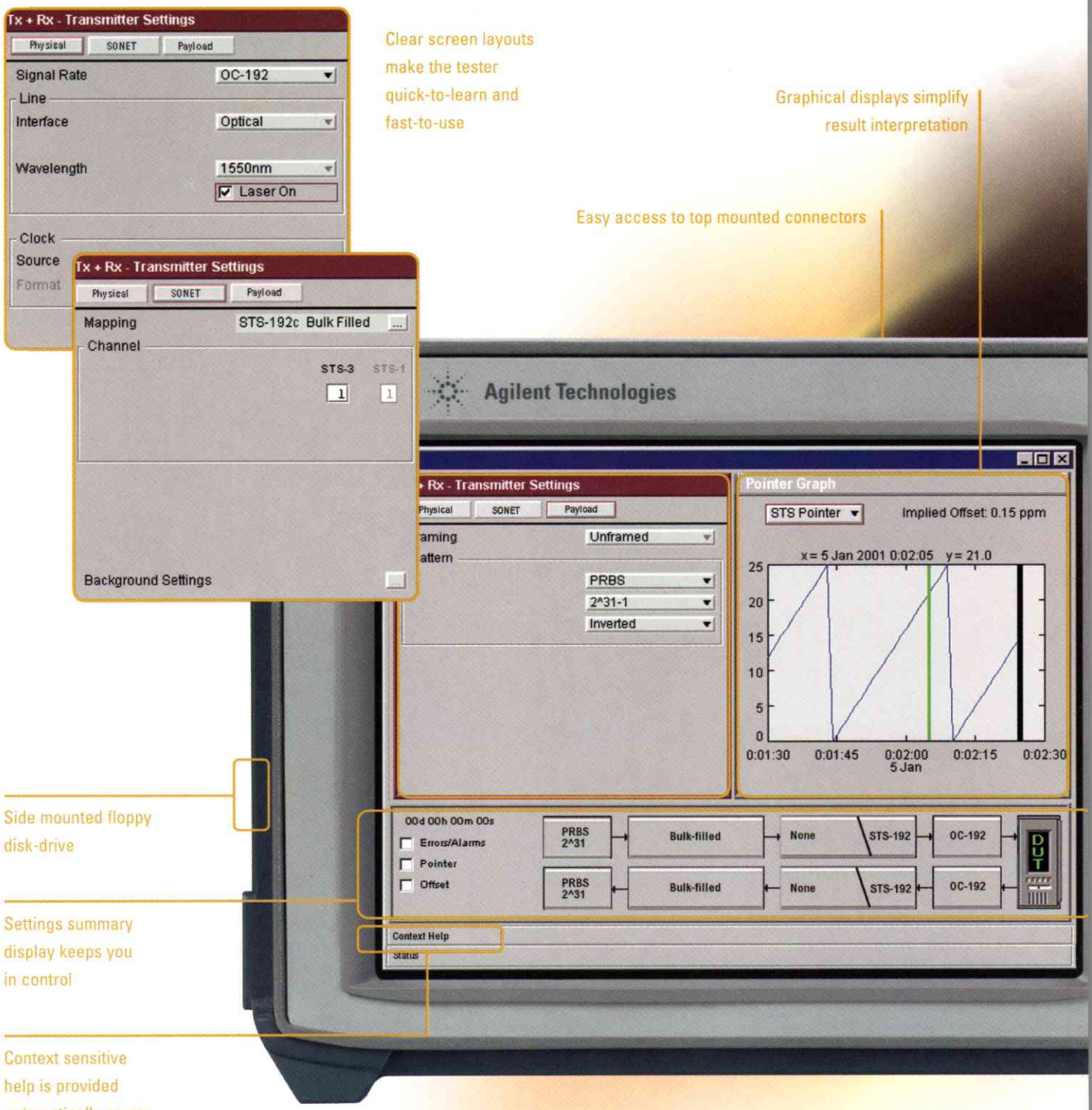
Quickly locate the channel carrying a specified path trace message.



Channel	Size	Trace Message	Signal Label
1,1	STS-48c	San Francisco - NewYork #3	ATM
17,1	STS-12c	San Francisco - Washington #17	HDLC/PPP
21,1	STS-3c	San Francisco - Los Angeles #10	ATM
22,2	STS-1	San Francisco - Phoenix #4	VT
23,1	STS-3c	San Francisco - San Jose #8	ATM
24,1	STS-12c	San Francisco - Chicago #6	HDLC/PPP
28,2	STS-1	San Francisco - Little Rock #1	VT
29,3	STS-1	San Francisco - Minnesota #2	VT
30,1	STS-1	San Francisco - San Jose #2	DS3
32,2	STS-1	San Francisco - Las Vegas #4	VT
34,1	STS-1	San Francisco - Seattle #10	VT
50,3	STS-1	San Francisco - NewYork #20	VT
55,2	STS-1	San Francisco - Denver #5	DS3
63,1	STS-1	San Francisco - Boston #9	DS3

San Francisco - San Jose # 8

Clear tabular display of all J1 or J2 path trace messages.



Clear screen layouts make the tester quick-to-learn and fast-to-use

Graphical displays simplify result interpretation

Easy access to top mounted connectors

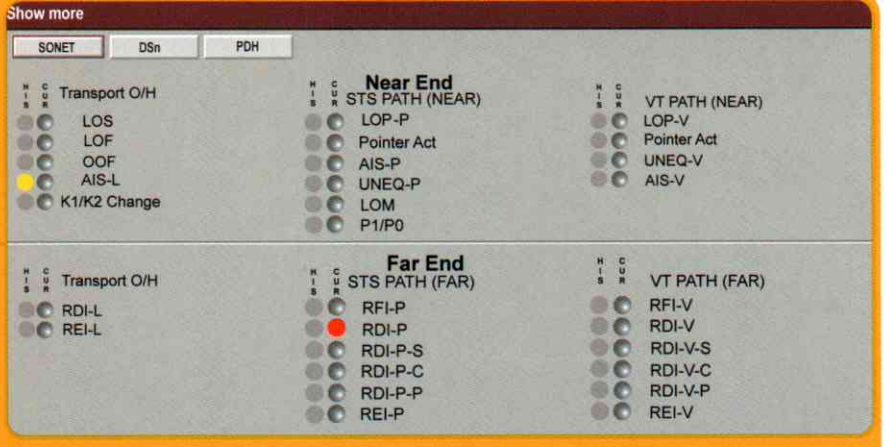
Side mounted floppy disk-drive

Settings summary display keeps you in control

Context sensitive help is provided automatically as you navigate through the user interface

Single key access to more detailed alarm information

Bright, bi-color LED's show network status at a glance



Gateway to powerful test tools

Comprehensive help system available at the touch of a button. Extend the help available by adding your own documentation

Simple operation via menu and arrow navigation

Side mounted
LAN (remote control)
RS-232 (remote control)
USB (printer)
Keyboard/mouse

Keypad for entering text and numerical data

Performance summary

- Global test coverage (SONET and SDH)
- Fully integrated all-rate testing:
  - 52 Mb/s to 10 Gb/s optical
  - 52/155 Mb/s; DS1/3; 2/8/34/140 Mb/s electrical
- Full range of standard and concatenated mappings
- All standard error and alarm measurements, plus:
  - Optical power, electrical level, pulse mask, frequency
  - APS time, pointer movements, delay
- Simultaneous all-channel testing
- Broad range of graphical results tools
- Comprehensive on-line help
- 2 year calibration cycle

compact and rugged

designed for life in the field

Product literature

You'll find further details of the transmission test set's capability in the product specification, publication no. 5988-2570EN; configuration guide publication no. 5988-2571EN; and CD-ROM, publication no. 5988-2763EN.

Related products

The Agilent Technologies OmniBER 718 communications performance analyzer is a rugged, portable one-box solution for manufacturing, installation and maintenance of SDH/SONET networks and network elements. It provides full PDH/T-carrier and SDH/SONET capability up to 2.5 Gb/s, including STM-16c/OC-48c payloads, ATM, jitter and POS. For further information, refer to publication no. 5968-8740E.

Agilent Technologies manufactures the J2126A and J2127A transmission test sets under a quality system approved to the international standard ISO 9001 plus TickIT (BSI Registration Certificate No FM 10987).

By internet, phone, or by fax, get assistance with all your test & measurement needs

Online assistance:
www.agilent.com/find/assist

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United States:
(tel) 1 800 452 4844

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(fax) (905) 206 4120

Europe:
(tel) (31 20) 547 2323
(fax) (31 20) 547 2390

Japan:
(tel) (81) 426 56 7832
(fax) (81) 426 56 7840

Latin America:
(tel) (305) 267 4245
(fax) (305) 267 4286

Australia:
(tel) 1 800 629 485
(fax) (61 3) 9272 0749

New Zealand:
(tel) 0 800 738 378
(fax) (64 4) 495 8950

Asia Pacific:
(tel) (852) 3197 7777
(fax) (852) 2506 9284

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Agilent Technologies' test and measurement support, services and assistance

Agilent Technologies aims to maximize the value you receive, while minimizing your risk and problems. We strive to ensure that you get the test and measurement capabilities you paid for and obtain the support you need. Our extensive support resources and services can help you choose the right Agilent products for your applications and apply them successfully. Every instrument and system we sell has a global warranty. Support is available for at least five years beyond the production life of the product. Two concepts underlie Agilent's overall support policy: "Our Promise" and "Your Advantage."

Our Promise

Our Promise means your Agilent test and measurement equipment will meet its advertised performance and functionality. When you are choosing new equipment, we will help you with product information, including realistic performance specifications and practical recommendations from experienced test engineers. When you use Agilent equipment, we can verify that it works properly, help with product operation, and provide basic measurement assistance for the use of specified capabilities, at no extra cost upon request. Many self-help tools are available.

Your Advantage

Your advantage means that Agilent offers a wide range of additional expert test and measurement services, which you can purchase according to your unique technical and business needs. Solve problems efficiently and gain a competitive edge by contracting with us for calibration, extra-cost upgrades, out-of- as well as design, system integration, project management, and other professional engineering services. Experienced Agilent engineers and technicians worldwide can help you maximize your productivity, optimize the return on investment of your Agilent instruments and systems, and obtain dependable measurement accuracy for the life of those products.

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